

REGULATORY MAP											
Regulatory maps are a listing of all potential environmental issues likely to be associated with a particular industry type and the regulatory agency and mechanism responsible for managing that issue.											
Category 54: Sewage Treatment Facility 100 cubic metres or more per day design capacity Premises on which - (a) sewage is treated (excluding septic tanks); or (b) treated sewage is discharged onto land or into waters.									 Department of Environment and Conservation  <i>Our environment, our future</i>		
Key Issues:	Odour, discharges to land or waters, waste management (biosolids)										
FACTOR	ISSUE/IMPACT	STATUTORY MANAGEMENT CONTROLS AVAILABLE (if required)									
		DEC				OTHER AGENCIES					
		WORKS APPROVAL	LICENCE	EP ACT & REGS	OTHER	EPA (Part IV)	LGA	DoW	DoH	DMP	OTHER
Issues During Construction and Operation											
Siting of Sewage Treatment Plant	<i>Construction</i> : Appropriate buffers and environmental considerations. <i>Operation</i> : N/A (excluding visual aesthetics)	✓	NO	NO		✓ If Significant	✓ (planning approval)	Advice	✓	NO	
Landscape issues/Visual Amenity	<i>Construction</i> - Buffer zones required for environmental considerations. <i>Operation</i> - N/A	NO	NO	NO	DEC (Parks and Visitors Service) advice if near National Park	✓ If significant	✓ (planning approval)	NO	NO	NO	
Native Vegetation Clearing	<i>Construction</i> - Clearing of all native vegetation. (No exotic species, plantations etc) <i>Operation</i> - N/A	NO	NO	✓ *EP Act (Clearing Native Vegetation Regulations) 2004 -clearing permit required, Environmental Harm	DEC (Nature Conservation) advice, WC Act 1950	✓ If significant	NO	NO	NO	NO	
Contaminated Site management	<i>Construction</i> - Site contaminated from previous activities. <i>Operation</i> - N/A	✓	✓	✓ *Environmental Harm, Pollution, EPN/PN	DEC (Contaminated Sites) advice, Contaminated Sites Act 2003	✓ If significant	NO	Advice	Advice	NO	
Acid Sulphate Soils	<i>Construction or Operation</i> - Exposure of Acid Sulfate Soils causes acidic runoff with a high concentration of metal ions. This can impact on vegetation, groundwater and surface water resources.	✓	✓	✓ Environmental Harm, Pollution, UDRs & EPN/PN	DEC (Contaminated Sites Branch) advice	✓ If significant	NO	Advice	NO	NO	
Air Emissions	<i>Construction</i> - N/A <i>Operation</i> - If relevant, air emissions can be generated from chlorine gas release and from incinerators. May require ongoing monitoring of substances. <i>See Odour</i>	✓ Design	✓	✓ *Environmental Harm, Pollution, EPN/PN	AQMB advice (if modelling required)	✓ If Significant	NO	NO	Advice	NO	
Dust Emissions	<i>Construction</i> - Generated by site construction, vehicle movements, general earth works. <i>Operation</i> - N/A Dust can impacts on flora (smothering), water bodies (sedimentation), and public health (usually nuisance effects).	✓ within perscribed premises boundary	✓ within perscribed premises boundary	✓ *Environmental Harm, Pollution, EPN/PN	Nature Conservation (EMB) advice, AQMB advice (if modelling required)	✓ If Significant	✓ (planning approval)	NO	Advice	NO	
Odour Emissions	<i>Construction</i> - Odours may be an issue during the upgrade, expansion for retrofit of an existing site. <i>Operation</i> - Offensive odours from treatment ponds, incinerators, unstabilised sewage sludges, desludging operations & storage of biosolids.	✓ Design	✓	✓ *Environmental Harm, Pollution, EPN/PN, unreasonable emissions	AQB advice (if modelling required)	✓ If Significant	✓ (planning approval)	NO	Advice	NO	
Noise Emissions	<i>Construction</i> - Noise generated by construction activities (vehicle plant movement etc). <i>Operation</i> - Noise generated by operations and processing equipment.	✓ Design	✓	✓ *EP (Noise) Regs 1997 & Unreasonable Emissions	DEC (Noise Regulation Branch Advice)	✓ If Significant	✓ (planning approval)	NO	NO	NO	
Light Emissions	<i>Construction and Operation</i> - Light may be a nuisance if construction(vehicle movements etc) , or operation of the site is carried out 24hrs a days, 7 days a week or if directly adjacent to sensitive receptors.	✓ Design	✓	✓ *Unreasonable Emissions	DEC (Nature Conservation) advice	✓ If Significant	✓	NO	NO	NO	
Discharges to Land	Discharge to Ponds <i>Construction</i> - ensure design of pond is acceptable (flood events, distance to groundwater, liners, maintenance etc). <i>Operation</i> - Wastewater may have high BOD, TDS, N and P etc. Can impact soils and groundwater through pond leakage, overtopping. Contamination may migrate off site.	✓ Design	✓	✓ *Environmental Harm, Pollution, EPN/PN		✓ If Significant	✓ (planning approval)	Advice	Advice	NO	
	Irrigation of wastewater <i>Construction</i> - develop NIMP for irrigation area & address area of vegetation, soil type, water and nutrient loading rates & frequency. <i>Operation</i> - Irrigated water may impact ground/surface water, may require monitoring of contaminants. Possible impacts on ecosystems through alteration of natural water cycles/levels.	✓	✓	✓ *Environmental Harm, Pollution, EPN/PN	DEC (Nature Cons) advice	✓ If Significant	✓ (planning approval)	✓	✓	NO	
	Discharge to Marine waters <i>Construction</i> - ensure discharge location and contaminants meet relevant guidelines (e.g Cockburn Sound EPP), adequate mixing zones and dischare rates. May impact on marine flora/fauna or recreational activities. <i>Operation</i> - discharges may require ongoing monitoring and reporting against relevant guidelines.	✓ Design	✓	✓ *Environmental Harm, Pollution, EPN/PN	DEC (Marine branch) advice	✓ If Significant	✓ (planning approval)	NO	Advice	NO	

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